Subject: Local Maxima of 2D array
Posted by robintw on Tue, 19 Jan 2010 17:48:11 GMT

Hi,

Another question from me I'm afraid. I'm trying to implement a routine
which needs to be able to calculate the local maxima of a small window
moved across an array. That is, I have a large array and I will need to
move a small 3x3 array across it, each time working out what the maximum
value of that array is and storing its index (or selecting it in some
other way).

I've investigated various methods for doing this, including the dilate
method, but I can't seem to get them to work properly.

Is there any good (as in fast, efficient and elegant) way of doing this,
or will I be reduced to using for loops and lots of IF statements?

Best regards,

Robin
University of Southampton